CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT NO. [redacted]

CD NO. 25X1A

COUNTRY USSR(Ukrainian SSR)

SUBJECT Zaporozhstal Metallurgical Plant at Zaporozhe

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NO. OF ENCLS. 1 (LISTED BELOW)

SUPPLEMENT TO REPORT NO. 25X1A [redacted]

[redacted] 25X1C 25X1X

[redacted]

~~THIS IS UNEVALUATED INFORMATION~~ 25X1

[redacted]

1. Location:

   The Zaporozhstal metallurgical plant is about 4.8 km northwest of Zaporozhe (35°11'E/47°49'N) in the Ukrainian SSR; on the south, the plant borders on the 13th and 14th town boroughs. Dwelling settlements are scattered around the plant.

2. Plant layout:

   a. The plant covers an area of about 3.2 x 1.5 km. According to Soviet information, the plant was established in the late 1920s, a considerable number of the machines being supplied from the Kramatorsk machine factory. Those departments of the plant which could be dismantled were displaced to the Ural in 1941. The remainder of the plant was almost destroyed during the war.

25X1 b. [redacted] clearing work was started as early as 1944. The first reconstruction work was started in 1945, the bulk of the shops reconstructed in 1946, and furnished, equipped and roofed in 1947.

   c. The Hot Rolling Mill was put into operation in August 1947, the Cold Rolling Mill on 1 October 1947. However, the rate of production of the hot rolling mill was as low as 50 to 60 percent at that time. Full capacity was not attained before the winter of 1947/48 when other installations and another eccentric cutter had been set up. The cold rolling mill was, in October 1948, furnished with a second acid bath and a new installation for rolling out the plates down to a thickness of 0.5 mm.

   d. In the Coking Block, Battery No 1, except assembling, was completed in 1949. It may have been put into operation on 1 December 1949. Operation of Coking Battery No 2 was started on 1 June 1949. A benzol installation was constructed in 1948/1949 and put into operation in the Spring of 1949. A new cooling tower, 27 meters high, was completed in the Summer

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was blown in as the third furnace in mid-July 1949. Furnace No 1 will, presumably, not be completed before April or May 1950. Construction of further furnaces was mentioned but no pertinent preparatory work was observed. Furnaces No 1 and 2 were connected by a founding shop which had been completed at a rate of 45 percent. The ventilating system of furnace No 1 was under construction. An assembling crane, 54 meters high, had also been erected here.

f. A new pig iron foundry was established in addition to the old one.

g. In the steel foundry, two new electric furnaces were put into operation in November 1948.

h. In the open-hearth Department, nine Siemen[redacted]naces were in operation, the three latest of which were com[redacted]g the last four months. The 10th furnace was scheduled to be [redacted]n December 1949; bases for the 11th and 12th furnaces had been erected.

i. A Pass Rolling Mill is under construction at the southeastern edge of the plant. The building site where several shops were completed, is about 360 x 360 meters. The dismantled machines of a rolling mill of the Ruhr territory are stored there in the open.

j. In 1948 a new turbine was installed in the power plant. However, the bulk of the power is supplied from the large-size hydro power plant by four high tension lines.

k. The plant is connected with a shunting station, farther to the north-east, by a spur track with two or three tracks. Numerous factory-owned locomotives are at the disposal of the plant. Several broad paved roads lead to the town.

For sketch of the plant see Annex.

3. Work force:

Three shifts were worked at the plant by a total of about 10,000 workers. 25X1 [redacted] these data to be only an estimate.

4. Production:

Sheet steel and sheet iron. [redacted] any other rolled products. 25X1

25X1A [redacted] Comment:

The Zaporozhstal metallurgical plant in Zaporozhe was previously reported. Information on the location of the plant is available. Very exact details on the plant layout and the installations of the individual plant departments are given by this report and the annexed sketch. As the respective location of the individual departments of the plant as indicated in the sketch almost exactly conforms with previous information, the attached sketch and the whole report may be considered correct.

1 Annex: Zaporozhstal Metallurgical Plant in Zaporozhe.

Legend to Annex:

1 Old pig iron foundry, 45 x 18 meters

2 New pig iron foundry, 45 x 27 meters

3 Demolished shop, 135 x 72 meters, not yet under reconstruction, foundations dug out

4 Forging shop, 135 x 72 meters. Furnaces are being installed

5 Craneway

6 Demolished building

7 Heap of rubbish and demolished

8 Pass rolling mill under construc 60 x 360 meters. Several shops completed ied German machines are stored beside them.

9 Main office, 90 x 27 meters

10 Spraying device for the blast furnaces

11 New foundry, 108 x 90 meters, presumably producing refined steel

12 Power plant, 60 x 36 meters

13 Compressor and gas generating station

14 New steel-mixing plant, 45 x 36 meters

15 Transformer station, 72 x

16 Blast furnace No 1, still uction, scheduled to be completed in April or May h

a Hot-blast stove (compl

b Ventilating system (under construction)

c Assembling crane, 54 meters high

17 Blast furnace No2, in operation since July 1949, capacity about 900 m tons, with

a Hot-blast stove

b. Ventilating system

18 Founding shop located between blast furnaces No 1 and 2, under construction

19 Blast furnace No 3, capacity more than 1,000 mtons per day, with

a Hot-blast stove

b Ventilating system

20 Blast furnace No 4, capacity exceeding 1,100 mtons per day, with hot blast stove of the same type as blast furnace No 3, a Ventilating system

21 Coke piles

22 Heap of ores [redacted], 90 meters long, 45 meters high

23 Coke-crushing [redacted]

24 Coke-quenching plant

25 through 28 Coke batteries No 1 through 4

29 Five coke silos

30 PW Camp No 4

31 Cooling tower, about 30 meters high

32 Pump station

33 Cooling tower, 2[illegible] meters high, new construction

34 Three gas coolers

35a Gas conduit

35 Gas cooling installations

36 Tar tanks

37 Transformer station

38 Sawmill

39 Wood storage yard

40 Coal washing plant

41 Coal silo

42 Coal mill

43 Loading platform

44 Cable elevator

45 Power station

46 Cooling tower, 36 meters high

47 Newly constructed benzol installation with four large-size benzol tanks of unidentified capacity

48 Transformer plant connected with the Dnieper Power Plant

49 Open-hearth plant with

a Shop for scrap preparation, 135 x 18 meters

b Open-hearth furnaces No1 through 6 with six steel smokestacks, each 72 meters high

c c Open-hearth furnaces No 7 through 9 with three steel smokestacks, each 72 meters high

d Open-hearth furnace No 10, under construction

e Foundations for Open-hearth furnaces No 11 and 12

f Mould and cart-redressing shop

g Storehouse, 36 x 13.5 meters

50 Office and mess

51 R[redacted]ters

52 G[redacted]

53 Tr[redacted]

54 Demolished building

55 Office building for cold rolling mill

56 Hot rolling mill with

a Annealing furnaces No 1 through 8 with eight sheet-metal smokestacks, each 40.5 meters high

b Roll

c Cutter

d Four annealing furnaces, No 1 through 3 in operation, No 4 under construction; oil and gas-heated

e Four sheet-metal smokestacks, each about 45 meters high

f Storage rooms

g Rolling mills No 1 through 5

h Rolling mills No 6 through 11

i Electric motor station containing the driving motors for the hot rolling mill

k Acid passage, under construction

l New-style American plate-annealing furnace

m Cooling plant

n Two plate cutters

o Piles of plates

p Two plate cutters

q New acid bath

r Acid bath under construction

s One rolling mill

t Offices, laboratory and experimental station

u New- annex shop, presumably to be used as experimental room

v Adjusting and cutting plant

w Plate and roll storage places

x Storage room for spare parts

y Switchboard plant connected with the main transformer station and the power station

z Workshops

z1 Compressor station

z2 Office

57 Transformer station for the hot rolling mill, 108 x 18 meters

58 Office and mess

59 Mess

60 Electric department for plant assembly

61 Compressor station

62 Cold rolling mill with

a Transformer station

b Packing room

c Plate storage room

d Workshops and offices

e Roll grinder

f Power and transformer station

g Simple roll for plates down to 0.5 mm

h Tandem roll

i Adjus[redacted]wo rolls

k Two p[redacted]r bath

l Pickl[redacted] bath, under construction

m Two straightening machines

n 18 electric annealing furnaces

o Acid bath

p Storage yard of the contractor's firm where dismantled German machines are stored

q Transformer station

r Straightening and cutting plant

s Machine storeroom

t Four gas-heated two-compartment annealing furnaces, each furnished with one sheet-metal smokestack about 12 meters high

u Annex under construction

63 Office and lathe shop of the contractor's firm, 135 x 27 meters.